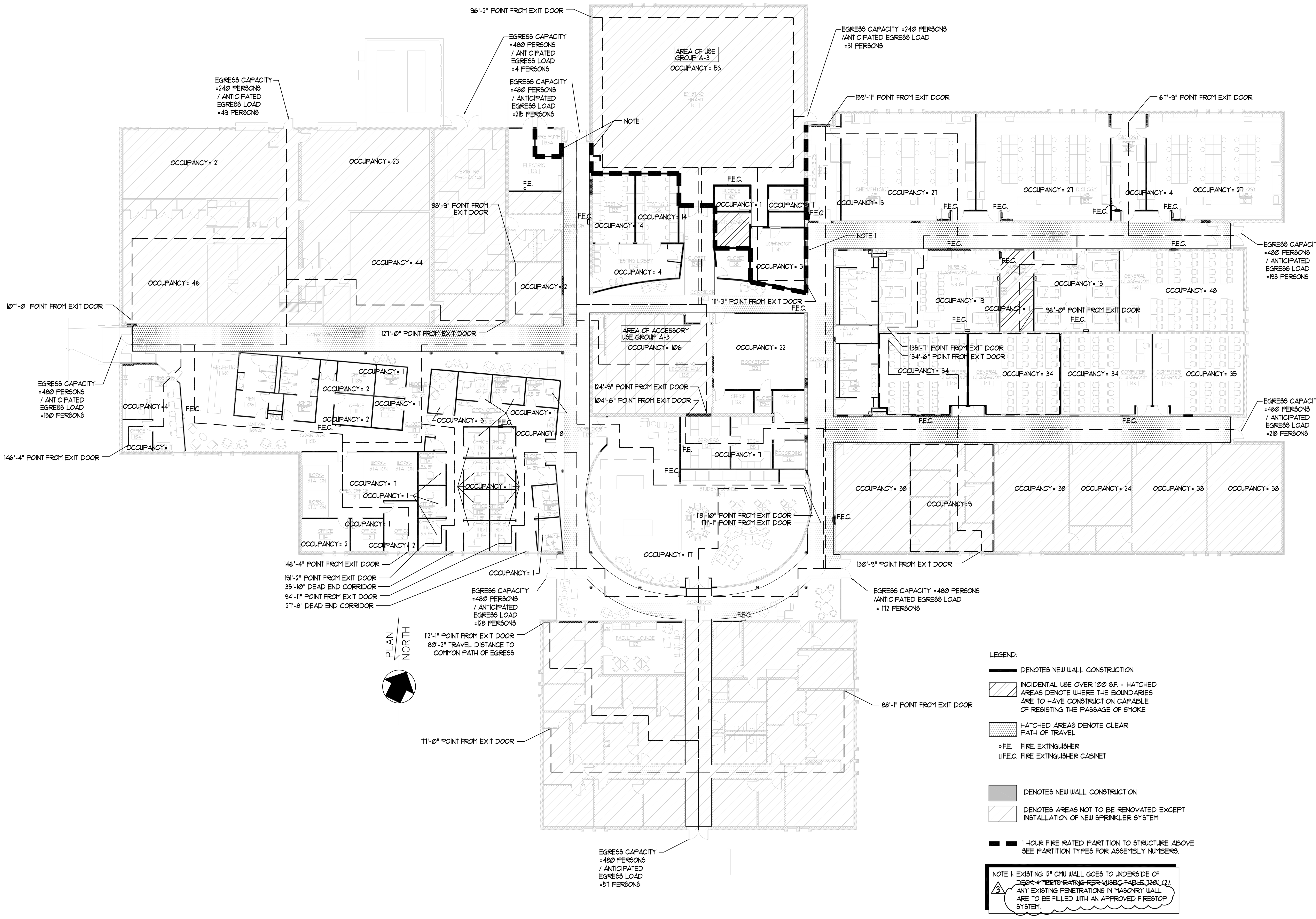

LEGEND:

- DENOTES NEW WALL CONSTRUCTION
- INCIDENTAL USE OVER 100 S.F. - HATCHED AREAS DENOTE WHERE THE BOUNDARIES ARE TO HAVE CONSTRUCTION CAPABLE OF RESISTING THE PASSAGE OF SMOKE
- HATCHED AREAS DENOTE CLEAR PATH OF TRAVEL
- ◦F.E. FIRE EXTINGUISHER
- ▯F.E.C. FIRE EXTINGUISHER CABINET
- DENOTES NEW WALL CONSTRUCTION
- DENOTES AREAS NOT TO BE RENOVATED EXCEPT INSTALLATION OF NEW SPRINKLER SYSTEM
- 1 HOUR FIRE RATED PARTITION TO STRUCTURE ABOVE SEE PARTITION TYPES FOR ASSEMBLY NUMBERS.

NOTE 1: EXISTING 12" CMU WALL GOES TO UNDERSIDE OF ~~DECK - MEETS RATING PER VUSBC TABLE 720.1(2).~~ (3) ANY EXISTING PENETRATIONS IN MASONRY WALL ARE TO BE FILLED WITH AN APPROVED FIRESTOP SYSTEM.

1 GLENNS CAMPUS FLOOR PLAN

A-1G | A-1G SCALE: 1/16" = 1'-0"

0 5 10 20 30 50
SCALE: 1/16"=1'-0"

CODE DATA

EXISTING FACILITY BUILDING CODE

VIRGINIA FIRE SAFETY REGULATIONS
- LATE 1960'S

BUILDING CODES

2006 VIRGINIA REHABILITATION CODE (PART II OF THE VUSBC)
REFERENCING: 2006 INTERNATIONAL BUILDING CODE
2006 INTERNATIONAL PLUMBING CODE
2006 INTERNATIONAL MECHANICAL CODE
2005 NATIONAL ELECTRICAL CODE
2006 INTERNATIONAL FUEL GAS CODE
2006 INTERNATIONAL ENERGY CONSERVATION CODE
2006 INTERNATIONAL FIRE CODE

ACCESSIBILITY STANDARD:
ADAAG -JULY 23, 2004
-EXEMPT FROM ABA (PAGES 72 TO 140)

TYPE OF CONSTRUCTION

TYPE - II B
FULLY SPRINKLERED PER VUSBC 903.3.1.1

OCCUPANCY CLASSIFICATION

MIXED SEPARATED:
GROUP B (BUSINESS)
ACCESSORY USE GROUP WITHIN BUSINESS A-3
(3637 S.F.=LESS THAN 10% AREA)
GROUP A-3 (ASSEMBLY)

BUILDING USE

HIGHER EDUCATION / LIBRARY (UNCHANGED)

ALLOWABLE HEIGHT (TABLE 503 + 504.2)

ALLOWABLE HEIGHT	2 STORIES / 55 FT.
SPRINKLER ADJUSTMENTS	+1 STORY / 20 FT.
TOTAL ALLOWABLE	3 STORIES / 75 FT.

ACTUAL: 1 STORY & 19'-9"

ALLOWABLE AREA (TABLE 503 + 506)

GROUP B OCCUPANCY
TABULAR AREA = 23,000 SQ. FT.

$I_f = \left[\frac{1,425}{1,425} - 0.25\right]\frac{30}{30} = .75$

$I_s = 3$

$A_a = 23,000 + [(23,000)(.75)] + [(23,000)(3)] = 109,250$ SQ. FT.

GROUP A-3 OCCUPANCY
TABULAR AREA = 9,500 SQ. FT.

$I_f = \left[\frac{1,425}{1,425} - 0.25\right]\frac{30}{30} = .75$

$I_s = 3$

$A_a = 9,500 + [(9,500)(.75)] + [(9,500)(3)] = 45,125$ SQ. FT.

SEPARATED OCCUPANCIES ALLOWABLE AREA RATIO

$\frac{51,928}{109,250} + \frac{4,552}{45,125} = .48 + .10 = .58 \leq 1$

BUILDING AREA

TYPE B OCCUPANCY	51,928 SQ. FT.
TYPE A-3 OCCUPANCY	4,552 SQ. FT.
GROUND FLOOR	56,480 SQ. FT.

EMERGENCY SHELTER

THIS BUILDING IS NOT DESIGNATED AS AN EMERGENCY SHELTER

SEISMIC DESIGN CATAGORY

EXISTING BUILDING = NOT APPLICABLE
NEW CONSTRUCTION = SEISMIC DESIGN CATEGORY "B"

OCCUPANCY LOAD (TABLE 1004.1.1)

SEPARATED B USE GROUP

BUSINESS =	30,758 GROSS SQ. FT. / 100 GROSS SQ. FT. PER OCCUPANT	= 308 OCCUPANTS
EDUCATIONAL = (CLASSROOM)	11,728 GROSS SQ. FT. / 20 NET SQ. FT. PER OCCUPANT	= 587 OCCUPANTS
EDUCATIONAL = (VOCATIONAL)	5,587 GROSS SQ. FT. / 50 NET SQ. FT. PER OCCUPANT	= 112 OCCUPANTS
MERCANTILE =	654 GROSS SQ. FT. / 30 GROSS SQ. FT. PER OCCUPANT	= 22 OCCUPANTS
STORAGE/MECH. =	2,337 GROSS SQ. FT. / 300 GROSS SQ. FT. PER OCCUPANT	= 8 OCCUPANTS
ACCESSORY A-3= (LECTURE)	1,089 GROSS SQ. FT. / 15 GROSS SQ. FT. PER OCCUPANT	= 73 OCCUPANTS
	ACTUAL NUMBER OF SEATS: 106	= 106 OCCUPANTS ACTUAL GOVENRS

SEPARATED A-3 USE GROUP

A-3 = (LIBRARY READING)	1,721 GROSS SQ. FT. / 50 NET SQ. FT. PER OCCUPANT	= 35 OCCUPANTS
A-3 = (LIBRARY STACK)	1,907 GROSS SQ. FT. / 100 GROSS SQ. FT. PER OCCUPANT	= 20 OCCUPANTS
BUSINESS =	699 GROSS SQ. FT. / 100 GROSS SQ. FT. PER OCCUPANT	= 7 OCCUPANTS

TOTAL OCCUPANT LOAD = 1,278 OCCUPANTS

FIRE RESISTANCE RATING (TABLES 601 + 508.3.3)

STRUCTURAL FRAME -	0 HR.
EXTERIOR BEARING WALLS -	0 HR.
INTERIOR BEARING WALLS -	0 HR.
INTR. BEARING WALLS(ROOF ONLY) -	0 HR.
NON-BEARING WALLS & PART. -	0 HR.
FLOOR CONSTRUCTION -	0 HR.
ROOF CONSTRUCTION -	0 HR.
CORRIDOR WALLS -	0 HR.
STORAGE OVER 100 SF -	0 HR.
SEPARATION (A + B) -	1 HR.

PLUMBING FIXTURE COUNT

USE AND OCCUPANCY UNCHANGED FROM ORIGINAL CONSTRUCTION

WATER CLOSETS

	MEN	WOMEN
ORIGINAL BUILDING	11 (7 UR.)	10
NEW DESIGN	11 (4 UR.)	11 + 1 UNISEX

LAVATORIES

	MEN	WOMEN
ORIGINAL BUILDING	8	9
NEW DESIGN	9	9 + 1 UNISEX

DRINKING FOUNTAIN

	TOTAL
ORIGINAL BUILDING	6
NEW DESIGN	8

SERVICE SINK

	TOTAL
ORIGINAL BUILDING	2
NEW DESIGN	2

EYEWASH / EMERGENCY SHOWER

TOTAL REQUIRED= 5
TOTAL PROVIDED= 5

nbj ARCHITECTURE
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RAPPAHANNOCK COMMUNITY COLLEGE
CAMPUS RENOVATIONS
WARSAW + GLENNS, VIRGINIA
PC: 260-17712

FIRE PROTECTION INORMATION
GLENNS CAMPUS

Date: JANUARY 13, 2010

REVISIONS	
NO.	DATE
2	REV. WORK 3/3/2010
3	REV. WORK 4/21/2010

COMMONWEALTH OF VIRGINIA
STEPHEN FLOYD CYBULSKI
Lic.NO.013047
ARCHITECT

Sheet FPI-1G
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